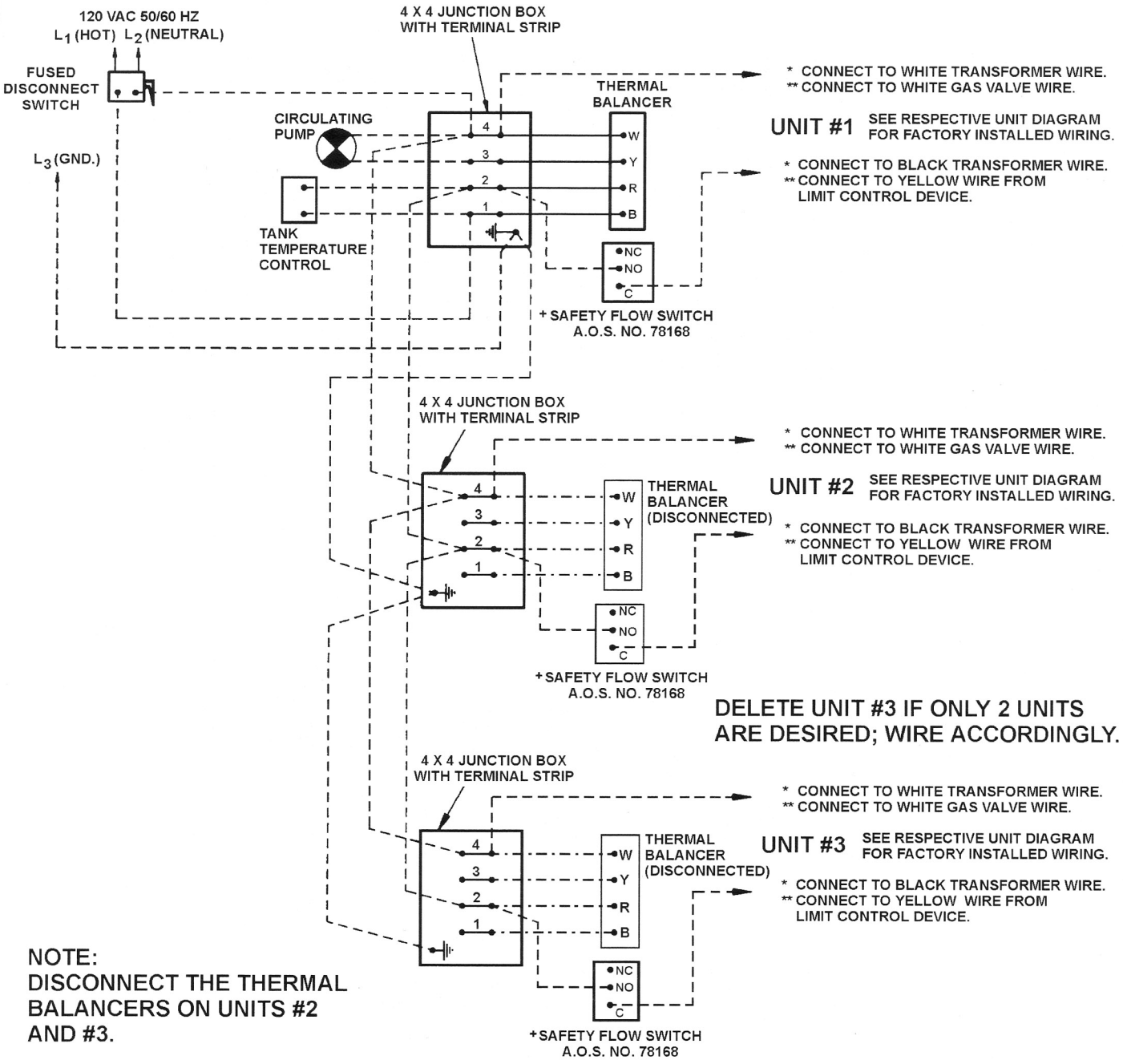
A.O.SMITH

CER-TEMP 80 WIRING DIAGRAM FOR HW-200M THRU HW-670 WITH OR WITHOUT IID SYSTEM (SINGLE CIRCULATOR SYSTEM)


120 VAC 50/60 HZ
L1 (HOT) L2 (NEUTRAL)
FUSED DISCONNECT SWITCH
L3 (GND.)
4 X 4 JUNCTION BOX WITH TERMINAL STRIP
CIRCULATING PUMP
TANK TEMPERATURE CONTROL
THERMAL BALANCER
W
Y
R
B
NC
NO
C
+SAFETY FLOW SWITCH A.O.S. NO. 78168
* CONNECT TO WHITE TRANSFORMER WIRE.
** CONNECT TO WHITE GAS VALVE WIRE.
UNIT #1 SEE RESPECTIVE UNIT DIAGRAM FOR FACTORY INSTALLED WIRING.
* CONNECT TO BLACK TRANSFORMER WIRE.
** CONNECT TO YELLOW WIRE FROM LIMIT CONTROL DEVICE.
4 X 4 JUNCTION BOX WITH TERMINAL STRIP
THERMAL BALANCER (DISCONNECTED)
+SAFETY FLOW SWITCH A.O.S. NO. 78168
* CONNECT TO WHITE TRANSFORMER WIRE.
** CONNECT TO WHITE GAS VALVE WIRE.
UNIT #2 SEE RESPECTIVE UNIT DIAGRAM FOR FACTORY INSTALLED WIRING.
* CONNECT TO BLACK TRANSFORMER WIRE.
** CONNECT TO YELLOW WIRE FROM LIMIT CONTROL DEVICE.
DELETE UNIT #3 IF ONLY 2 UNITS ARE DESIRED; WIRE ACCORDINGLY.
4 X 4 JUNCTION BOX WITH TERMINAL STRIP
THERMAL BALANCER (DISCONNECTED)
+SAFETY FLOW SWITCH A.O.S. NO. 78168
* CONNECT TO WHITE TRANSFORMER WIRE.
** CONNECT TO WHITE GAS VALVE WIRE.
UNIT #3 SEE RESPECTIVE UNIT DIAGRAM FOR FACTORY INSTALLED WIRING.
* CONNECT TO BLACK TRANSFORMER WIRE.
** CONNECT TO YELLOW WIRE FROM LIMIT CONTROL DEVICE.
NOTE:
DISCONNECT THE THERMAL BALANCERS ON UNITS #2 AND #3.

CONNECTION DIAGRAM

+FLOW CLOSES CIRCUIT.

WIRING

——— BY FACTORY
– – – – BY INSTALLER
–·–·–·– DISCONNECT BY INSTALLER

* I.I.D. UNITS
** STANDING PILOT UNITS

NOTE: IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THE APPLIANCE, MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 105°C WIRE OR ITS EQUIVALENT, EXCEPT FOR THE FLAME SENSOR AND IGNITION CABLE (I.I.D. UNITS ONLY) WHICH ARE 250°C AND WIRES CONNECTED TO THE COIL PROTECTOR WHICH ARE 200°C.

CER-TEMP 80 WIRING DIAGRAM FOR HW-670 WITH IID SYSTEM

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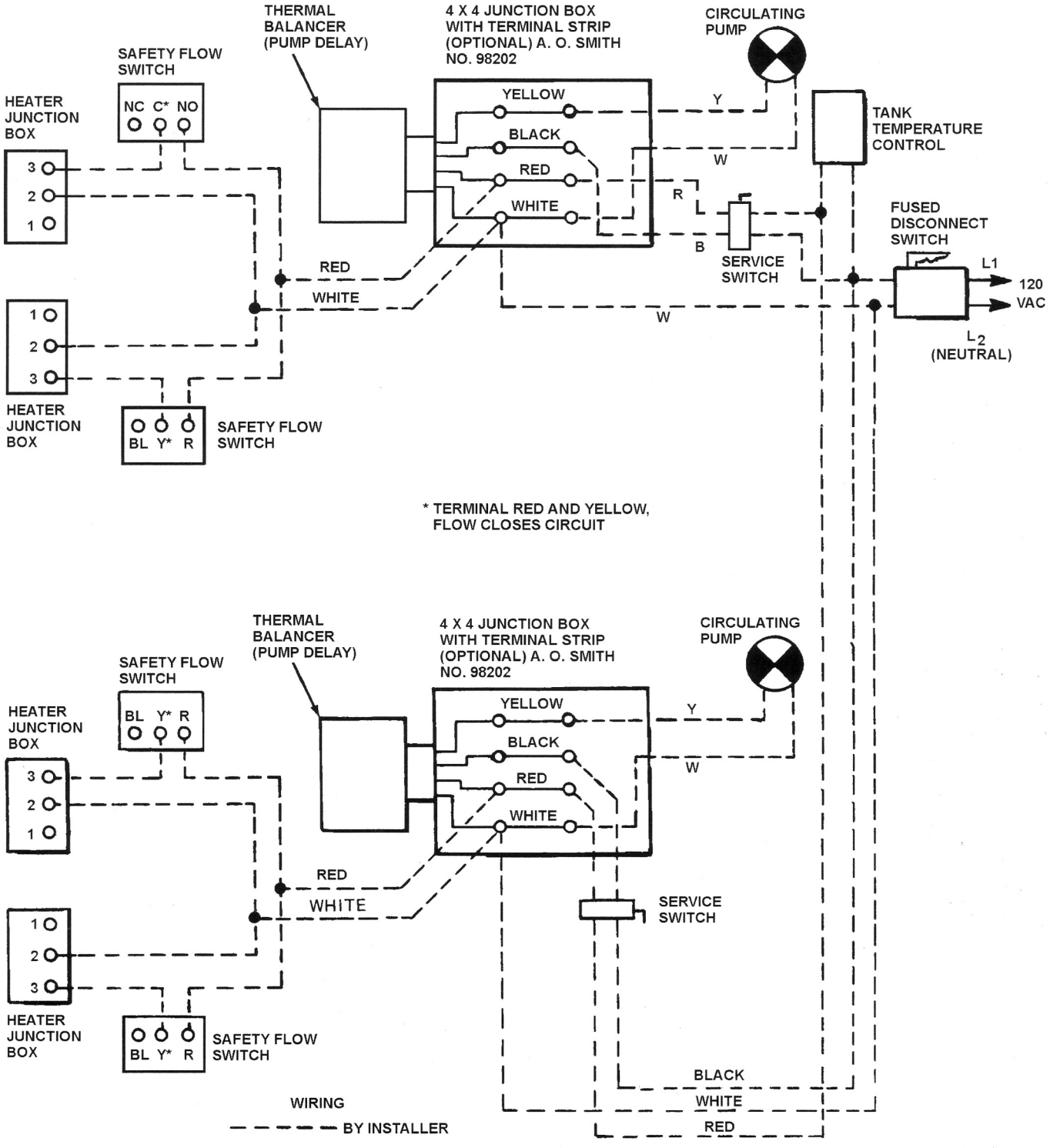

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